

## XP-002111413

1/1 - (C) WPI / DERWENT  
AN - 94-276042 c34!  
AP - JP930003346 930112  
PR - JP930003346 930112  
TI - Prepn. of tablet detergent having sufficient strength and high solubility - by mixing raw materials including nonionic surfactant and oil absorber to occlude surfactant, granulating the mixt, then compacting to form tablet  
IW - PREPARATION TABLET DETERGENT SUFFICIENT STRENGTH HIGH SOLUBLE MIX RAW MATERIAL NONIONIC SURFACTANT OIL ABSORB OCCLUDE SURFACTANT GRANULE MIXTURE COMPACT FORM TABLET  
PA - (KAOS ) KAO CORP  
PN - JP6207199 A 940726 DW9434 C11D11/00 014pp  
ORD - 1994-07-26  
IC - C11D11/00 ; C11D17/06  
FS - CPI  
DC - D25  
AB - J06207199 Process consists of mixing raw materials including a nonionic surfactant(s) of a m.pt. of up to 40 deg.C and an oil absorber(s) to occlude the surfactant, granulating the mixt. from the first process to obtain detergent particles of an average grain size of 150-1000 microns and a bulk density of 0.6-1.2 g/ml, and compacting the particles to form a tablet of a bulk density of 1.0-2.0 g/ml.  
- Pref. the raw materials comprise one or a mixt. of (a) 75-95 pts.wt. of spraying-dried particles and 5-25 pts.wt. of a nonionic surfactant(s), (b) 20-89 pts.wt. of a builder(s), 1-20 pts.wt. of a silica deriv(s). and 10-60 pts.wt. of a nonionic surfactant(s), (c) 75-95 pts.wt. of a builder/spraying-dried particle mixt. of a wt. ratio of 5/95 to 95/5 and 5-25 pts.wt. of a nonionic surfactant(s) and (d) 20-89 pts.wt. of a builder/spraying-dried particle mixt. of a wt. ratio of 5/95 to 95/5, 1-20 pts.wt. of a silica deriv(s). and 10-60 pts.wt. of a nonionic surfactant(s).  
- The builder consists of at least one of organic and inorganic powder builders. The spray-dried particle is prepd. by spraying-drying water slurry contg. the builder. The silica deriv. has a porosity, measured by

the mercury injection method. The silica deriv. has a porosity, measured by the mercury injection method, of 100-600 cm<sup>3</sup>/100 g, a specific surface area, measured by BET of 20-700 m<sup>2</sup>/g and an oil absorption, measured by JIS K5101, of at least 100 ml/100 g.

- USE/ADVANTAGE - Provides a tablet detergent based on nonionic surfactants having high strength and solubility and a high deg. of blending ingredients. (Dwg.0/0)